OWNER'S MANUAL

VIDEO CASSETTE RECORDER

6221CVB

SYLVANIA

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SUPPLIED ACCESSORIES

ACCESSORIES	PART NO.
Coaxial Cable	WPZ0901LW001
Remote Control Unit	N9373UD or N9376UD
Batteries	AA x 2

As an ENERGY STAR® Partner, our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. ENERGY STAR® is a U.S. registered mark.

If you need additional operating assistance after reading this owner's manual or to order replacement accessories, please call **TOLL FREE : 1-800-287-4871.**

VHS

Please read before using this equipment.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The caution marking is located on the rear of the cabinet.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

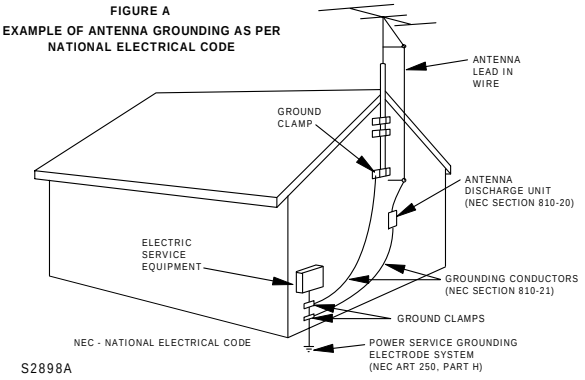
IMPORTANT SAFEGUARDS

1. **Read Instructions**-All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions**-The safety and operating instructions should be retained for future reference.
3. **Heed Warnings**-All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions**-All operating and use instructions should be followed.
5. **Cleaning**-Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

   EXCEPTION : A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
6. **Attachments**-Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
7. **Water and Moisture**-Do not use this video product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. **Accessories**-Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. **Ventilation**-Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to .
10. **Power Sources**-This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
11. **Grounding or Polarization**- This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. **Power Cord Protection**-Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Outdoor Antenna Grounding**-If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
NEC - NATIONAL ELECTRICAL CODE
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
S2898A

14. **Lightning**-For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.
15. **Power Lines**-An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. **Overloading**-Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. **Object and Liquid Entry**-Never push objects of any kind into this video product through any openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.
18. **Servicing**-Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. **Damage Requiring Service**-Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    - **a.** When the power-supply cord or plug is damaged.
    - **b.** If liquid has been spilled, or objects have fallen into the video product.
    - **c.** If the video product has been exposed to rain or water.
    - **d.** If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
    - **e.** If the video product has been dropped or damaged in any way.
    - **f.** When the video product exhibits a distinct change in performance-this indicates a need for service.
20. **Replacement Parts**-When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. **Safety Check**-Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.
22. **Heat**-This video product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

PRECAUTIONS

INSTALL LOCATION

For safety and optimum performance of your VCR:

- Install the VCR in a horizontal and stable position. Do not place anything directly on top of the VCR. Do not place the VCR directly on top of the TV.
- Shield it from direct sunlight and keep it away from sources of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the VCR. Avoid locations subject to strong vibration or strong magnetic fields.

AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

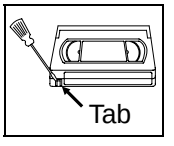
- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on your VCR, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.
- Do not put your fingers or objects into the VCR cassette holder.

MOISTURE CONDENSATION WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use the VCR at least for 2 hours until its inside is dry.

VIDEO CASSETTE TAPE

- This VCR will operate with any cassette that has the VHS mark. For best results, we recommend the use of high-quality tapes. Do not use poor quality or damaged tapes.
- Avoid moisture. Moisture condensation may occur on the tape if it is moved from a cold place to a warm place or visa versa. Before using a tape with these conditions, to avoid damage of the tape and your VCR, wait until the tape has warmed to room temperature and the moisture has evaporated.
- Avoid extreme heat, high humidity and magnetic fields.
- Do not tamper with the cassette mechanism.
- Do not touch the tape with your fingers.
- You can prevent accidental erasing of a recording by breaking off the tab on the back edge of the cassette.
- If you decide to record on the tape again, cover the hole with plastic tape.



REMOTE CONTROL

We do not recommend the use of universal remote controls. Not all of the functions may be controlled with a universal remote control.
If you decide to use a universal remote control with this unit, please be aware that the code number given may not operate this unit. In this case, please call the manufacturer of the universal remote control.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

IMPORTANT COPYRIGHT INFORMATION

Unauthorized recording or use of broadcast television programming, video tape, film or other copyrighted material may violate applicable copyright laws. We assume no responsibility for the unauthorized duplication, use, or other acts which infringe upon the rights of copyright owners.

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

SERIAL NUMBER

The serial number of this product may be found on the back of the VCR. No other VCR has the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

FEATURES

Hardware specifications

- **Auto Head Cleaner**
- **Bilingual on-screen menu display selectable in English or French**
- **181 channel capability PLL frequency synthesizer tuner with direct station call**

  (A cable converter box may be necessary to view scrambled cable channels)

Automatic functions

- **Auto power on and off system**
- **Digital Auto Tracking (DTR)**

Playback

- **S-VHS Quasi Playback (SQPB)**

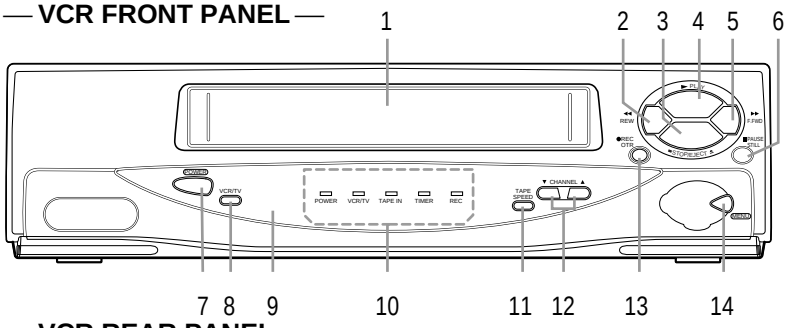
  (Allows you to view a tape recorded in S-VHS format.)
- **Auto Repeat**
- **2 Step Picture Search Operation**

Recording

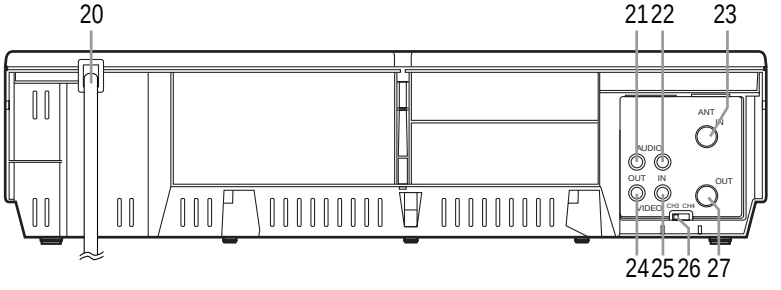
- **1 Year, 7 events (including Daily and Weekly Timer Recording)**
- **OTR (One Touch Recording)**

OPERATING CONTROLS AND FUNCTIONS

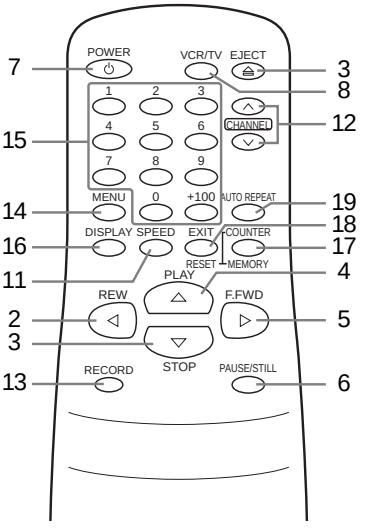
— VCR FRONT PANEL —



— VCR REAR PANEL —



— REMOTE CONTROL —



1. **Cassette Compartment**
2. **REW button–** Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode. (Rewind Search)

   Press to cancel a setting of timer program. Press to correct digits when setting program (For example: setting clock or timer program). Press to add or delete channel numbers during channel preset.
3. **EJECT button–** Press to remove the tape from the VCR. (only on the VCR)

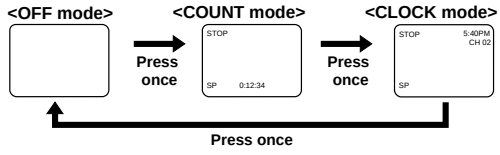
   STOP button– Press to stop the tape motion.

   Press to enter digits when setting program (For example: setting clock or timer program). Press to select the setting modes from the on screen menu.
4. **PLAY button–** Press to begin playback.

   Press to enter digits when setting program (For example: setting clock or timer program).
   Press to select the setting modes from the on screen menu.
5. **F.FWD button–** Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search)

   When setting program (For example: setting clock or timer program), press to determine your selection and proceed to the next step you want to input. Press to determine the setting modes from the on screen menu. Press to add or delete channel numbers during channel preset.

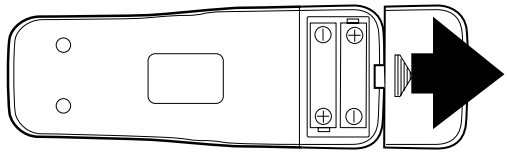
6. **PAUSE/STILL button–** Press to temporarily stop the tape during recording or to view a still picture during playback.
7. **POWER button–** Press to turn VCR on and off. Press to activate timer recording, when the timer program has been set.
8. **VCR/TV button–** Press to select TV or VCR mode.
   VCR position: to view playback, to monitor video recordings or watch TV using the VCR tuner.
   TV position: to watch TV or to view one program while recording another.
9. **Remote sensor window–** Receives the infrared signals from the remote control.
10. **Indicators**
    POWER indicator– Indicates that the power is turned on.
    VCR/TV indicator– Indicates that the VCR is in the VCR position.
    TAPE IN indicator– Indicates that there is a tape in the VCR.
    TIMER indicator– Indicates that the timer recording or OTR has been set.
    REC indicator– Indicates that it is recording. Flashes when a recording has been paused.
11. **TAPE SPEED button–** Press to choose the desired recording speed : SP/SLP.
12. **CHANNEL Up or Down buttons–** Press to select the desired channels for viewing or recording.
    Tracking function– Press to minimize video 'noise' (lines or dots on screen) during playback (only on the VCR).
    Press to stabilize the picture in the Still mode when the picture begins to vibrate vertically.
13. **RECORD button–** Press for manual recording.
    OTR button– Press to activate One Touch Recording. (only on the VCR)
14. **MENU button–** Press to display the menu on the TV screen. Press to exit the menu on the TV screen.
15. **NUMBER buttons–** Press to select desired channels for viewing or recording. To select channels from 1 to 9, first press "0" button then 1 to 9. (only on the remote control)
    +100 button– When selecting cable channels which are higher than 99, press this button first, then press the last two digits. (To select channel 125, first press "+100" button then press "2" and "5"). (only on the remote control)
16. **DISPLAY button–** Press to display the current time, channel number, real time tape counter, and other information on the TV screen. (only on the remote control)
    Each time you press this button, TV screen will change as shown. The status display (STOP, PLAY etc.) and the tape speed display (SP, LP (playback only), or SLP) will disappear after 5 seconds.



17. **COUNTER MEMORY button–** Press to set counter memory on and off. (only on the remote control)
18. **COUNTER RESET button–** Press to reset counter to 0:00:00. (only on the remote control)
    EXIT button– Press to exit the menu on the TV screen. (only on the remote control)
19. **AUTO REPEAT button–** Press to repeat playback automatically. (only on the remote control)
20. **Power cord–** Connect to a standard AC outlet (120V/60Hz).
21. **AUDIO OUT jack–** Connect to the audio input jack of your audio equipment or another VCR.
22. **AUDIO IN jack–** Connect to the audio output jack of your audio equipment or another VCR.
23. **ANT. IN terminal–** Connect to an antenna, Cable system or Satellite system.
24. **VIDEO OUT jack–** Connect to the video input jack of your video camera or another VCR.
25. **VIDEO IN jack–** Connect to the video output jack of your video camera or another VCR.
26. **CH3/CH4 selector switch–** Use to select a video output channel (3 or 4) for VCR playback.
27. **ANT. OUT terminal–** Connects to the antenna input terminal on your TV.

INSTALLING THE BATTERIES

1) Open the battery compartment cover by pressing the cover on the remote unit in the direction of the arrow.
2) Insert 2 "AA" penlight batteries into the battery compartment in the direction indicated by the polarity (+/-) markings.
3) Replace the cover.



Install 2 X AA battery

ANTENNA/CABLE CONNECTIONS

For some of the most common types of connections, please refer to the diagram below. Use only one connection. For any further complex connections, please contact your local dealer. (You may need additional accessories which are not supplied).

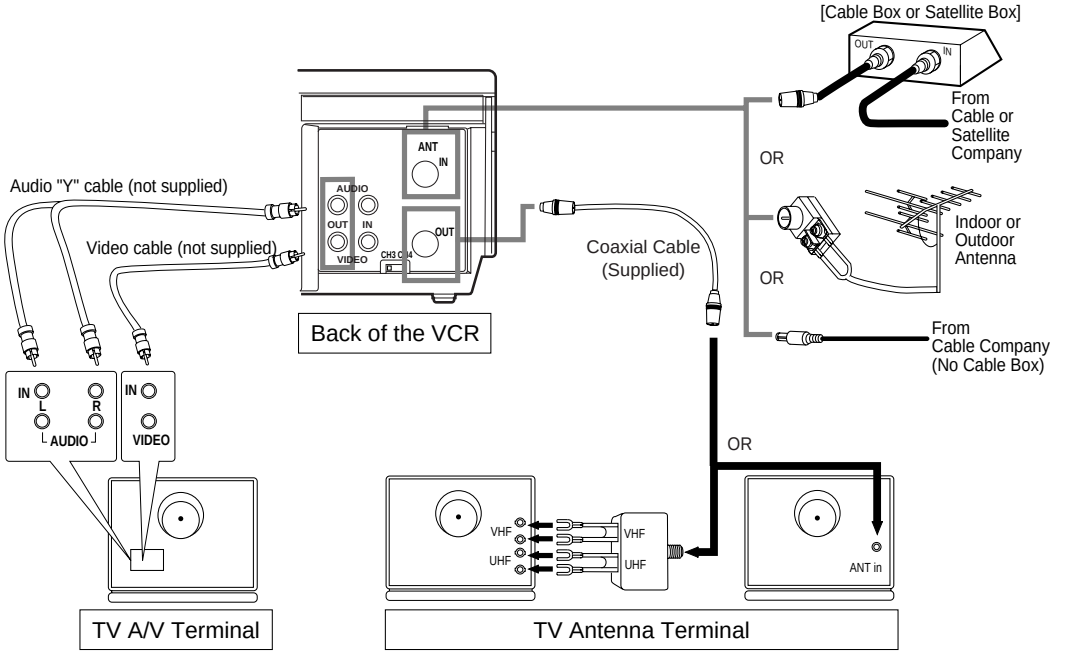
1 **Disconnect the antenna or cable from your TV.**

2 **Connect the antenna or cable to the ANT.IN (Top jack) of your VCR.**

3 **Connect one end of the coaxial cable (supplied) to the ANT.OUT (Bottom jack) of your VCR.**

4 **Connect the other end of the coaxial cable (supplied) to the UHF/VHF antenna jack of your TV.**

Basic Connections



USING OPTIONAL AUDIO/VIDEO OUTPUT JACKS

If your TV has A/V input jacks, you may connect your VCR's AUDIO/VIDEO OUTPUT jacks to the audio/video input jacks on back of your TV.

Direct audio/video connections usually result in a better picture and sound quality for tape playback. Please see your TV's owner's manual for A/V input connections.

USING AUDIO/VIDEO INPUT JACKS

You can use the A/V input jacks on the back of the VCR.

- When you connect the external source to the input jacks on the back of the VCR, select "Line-in" position for recording by pressing the 0 button on the remote control twice or CHANNEL Up/Down button.

  Note: "Line-in" is found before the lowest memorized channel. (Example: CH2)

Note to CATV system installer

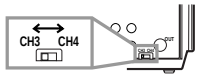
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

SETTING THE CH3/CH4 SWITCH

If your TV does not have A/V terminals:

When the VCR is in the Playback mode or when the VCR is in the VCR position, your TV will receive signals from the VCR on either channel 3 or 4.

To use the VCR with your TV, set the selector switch to CH3 or CH4 (which is located in the back of your VCR), whichever is not used for normal broadcasts in your area. Then set your TV to the same channel.



[Back of the VCR]

AUTOMATIC CHANNEL SET UP

You can automatically program the tuner to scan only the channels you receive in your area.

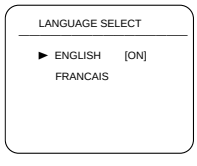
- Channel memory programming is **NOT needed when you connected the VCR to a cable box or satellite box** as in "Basic connections" on page 6. In this case, select the VCR and TV to channel 3 or 4 the same channel as the CH3 or CH4 switch on the back of the VCR. Then, the channel you want to record or view may be selected at the cable box or satellite box.
- Follow the steps below once. Repeat it only if there is a power failure or if the VCR is unplugged for more than 30 seconds. (In these cases, the programmed channels are erased.)
- You must follow the steps below before attempting to play or record a video tape. If you want to play or record a video tape BEFORE programming the tuner, you can cancel it by pressing the RESET/EXIT button. To program the tuner again, see "CHANNEL SET UP AGAIN" on the next page.

1 **You need to connect the antenna or cable to the VCR first. Then, connect the VCR power plug into a standard AC outlet.**

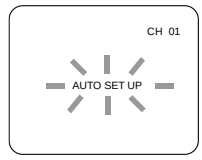
2 **Turn on the TV and set the TV to channel 3 or 4.**
Now set the CH3/CH4 switch on the back of the VCR to match the channel selected on the TV.

3 **Turn on the VCR** by pressing the POWER button. Both the POWER indicator and the VCR/TV indicator on the VCR come on.

4 **Select the On Screen Language ("ENGLISH" or "FRANCAIS")** by pressing the PLAY or STOP button. Then, press the F.FWD button.



5 **Begin channel preset** by pressing the F.FWD button once. The tuner scans and memorizes all active channels in your area.



- The VCR distinguishes between standard TV channels and cable channels.

6 **After scanning,** the tuner stops on the lowest memorized channel. The TV screen returns to TV mode.

- If "AUTO SET UP" appears on the TV screen again, check the cable connections. Press the F.FWD button once again and the VCR will begin preset again.

TO SELECT A DESIRED CHANNEL

You can select the desired channel by using the CHANNEL Up or Down button or directly pressing the number buttons on the remote control.

Note for using the number buttons:

- When selecting cable channels which are higher than 99, press the +100 button first, then press the last two digits.
- You must precede single-digit channel numbers with a zero (For example: 02, 03, 04 and so on).

CLOCK SET UP

Set the clock accurately for proper automatic timer recording. We suggest that you use a TV or radio station as your time source.

1 **Select main menu** by pressing the MENU button. (If the clock is not set, the CLOCK SET menu appears first. In this case, follow step [3].)

2 **Select "CLOCK SET"** by pressing the PLAY or STOP button. Then, press the F.FWD button.

3 **Set the clock.**

Set the month	Press the PLAY or STOP button repeatedly. Then, press the F.FWD button.
Set the day	Press the PLAY or STOP button repeatedly. Then, press the F.FWD button.
Set the year	Press the PLAY or STOP button repeatedly. Then, press the F.FWD button. The day of the week will appear automatically.
Set the hour	Press the PLAY or STOP button repeatedly. Then, press the F.FWD button.
Set the minute	Press the PLAY or STOP button repeatedly. Then, press the F.FWD button.
Set the AM or PM	Press the PLAY or STOP button repeatedly.

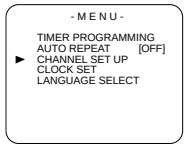
- To go back one step, press the REW button.

4 **Start the clock** by pressing the RESET/EXIT or F.FWD button after setting the AM or PM.

TO ADD/DELETE CHANNELS

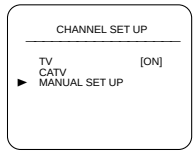
When the VCR automatically programs the tuner to scan only the channels you receive in your area, some channels may be skipped due to a weak signal. You can manually add the channel in the VCR memory. (Of course, you can later delete the added channel from the memory again.)

1 **Select main menu** by pressing the MENU button.

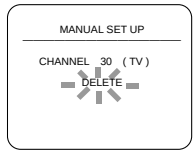


2 **Select "CHANNEL SET UP"** by pressing the PLAY or STOP button. Then, press the F.FWD button.

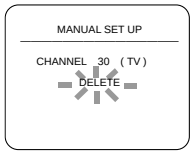
3 **Select "MANUAL SET UP"** by pressing the PLAY or STOP button. Then, press the F.FWD button.



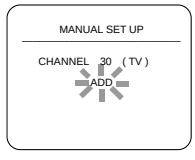
4 **Enter the desired channel number** by pressing the PLAY or STOP button.



5 **Add or Delete it from memory** by pressing the F.FWD or REW button so that "ADD" or "DELETE" flashes on the TV screen accordingly.



- DELETED -

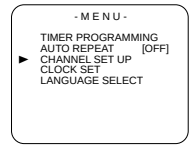


- MEMORIZED -

6 **Exit the preset mode** by pressing the RESET/EXIT button.

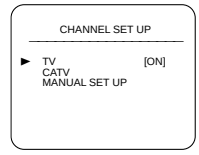
CHANNEL SET UP AGAIN

1 **Select main menu** by pressing the MENU button.



2 **Select "CHANNEL SET UP"** by pressing the PLAY or STOP button. Then, press the F.FWD button.

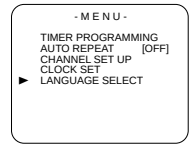
3 **Press the PLAY/▲ or STOP/▼ button repeatedly** to point to "TV" or "CATV".



4 **Press the F.FWD/► button once or twice.** After scanning, the tuner stops at the lowest memorized channel.

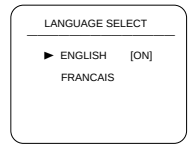
SELECTING THE ON SCREEN LANGUAGE

1 **Select main menu** by pressing the MENU button.



2 **Select "LANGUAGE SELECT"** by pressing the PLAY or STOP button. Then, press the F.FWD button.

3 **Select the On Screen Language ("ENGLISH" or "FRANCAIS")** by pressing the PLAY or STOP button.



4 **Exit the preset mode** by pressing the RESET/EXIT button.

NORMAL PLAYBACK

1 **Insert the prerecorded tape.** The VCR will turn on. If the safety tab has been removed, the VCR will start playback automatically.

2 **Turn on the TV and set the TV to channel 3 or 4.** Now set the CH3/CH4 switch on the back of the VCR to match the channel selected on the TV.

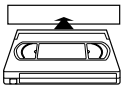
3 **Begin playback** by pressing the PLAY button.

- Tracking adjustment will be set automatically (Digital Tracking function) when you start playback. To adjust the tracking manually, press the CHANNEL Up or Down button **on the VCR**.
- When a tape has reached the end, the VCR will rewind the tape to the beginning, eject the tape, and turn off the VCR automatically.
- S-VHS Quasi Playback (SQPB)
  This unit allows you to view a tape recorded in S-VHS format. (Noise lines may appear on the picture.)

4 **To stop playback,** press the STOP button.

PICTURE SEARCH

If you want to skip or repeat a scene while in the play mode, press the F.FWD or REW button.



- Press it again and the VCR will now search in super high speed. (in the LP / SLP modes only)

STILL

You can freeze the picture on TV screen by pressing the PAUSE/STILL button during playback.

- Usually there will be video "noise" lines (black and white streaks or dots) on the screen. **This is not a fault of the machine but is a by-product of the technology involved in producing a 2 Head VCR.**
  Only a tape recorded in the SLP mode will show a clear picture. You can change position of the noise lines on a still picture by pressing the PAUSE/STILL button repeatedly.
- After the VCR has been in Still mode for 5 minutes, it will stop automatically to protect the tape and the video head.
- To return playback, press the PLAY button.

AUTO REPEAT PLAYBACK

Use this feature allows you to play a tape over and over.

1) Select main menu by pressing the MENU button.
2) Select "AUTO REPEAT" by pressing the PLAY or STOP button.
3) Begin auto repeat playback by pressing the F.FWD button so that [ON] will appear next to "AUTO REPEAT" on the TV screen.

- If the on-screen menu still remains, press the RESET/EXIT button to exit the menu.
- You can set AUTO REPEAT to ON or OFF by pressing the AUTO REPEAT button on the remote control.
- To cancel the auto repeat mode, press the F.FWD button at step [3] so that [OFF] appear next to "AUTO REPEAT" on the TV screen.
- When you set the auto repeat mode to [ON] while the counter memory mode is ON, the VCR will exit the counter memory mode automatically.

Before recording, make sure:

- The desired channel is selected by pressing the number buttons on the remote control or the CHANNEL Up/Down button. (If you connected the VCR to a cable box or satellite box as in "Basic connections" on page 6, select the VCR to channel 3 or 4 the same channel as the CH3 or CH4 switch on the back of the VCR. Then, select the channel you want to record at the cable box or satellite box. In this case, you can ONLY record and view the SAME channel.)
- There is a tape with its safety tab into the VCR.
- The desired recording speed is selected in SP(standard play) or SLP(super long play) mode by pressing the TAPE SPEED button.

Tape Speed / Type of tape	Recording/Playback Time T60	T120	T160
SP mode	1 hour	2 hours	2-2/3 hours
SLP mode	3 hours	6 hours	8 hours

VIEWING AND RECORDING THE SAME PROGRAM

1) Begin the recording by pressing the RECORD button.
- To temporarily stop recording or resume it, press the PAUSE/STILL button. After the VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head.

2) Stop the recording by pressing the STOP button when recording is completed.

OTR(One Touch Recording)

This function enables you to set the recording length simply by pressing the REC/OTR button **on the VCR.**

1) Begin OTR by pressing the REC/OTR button **on the VCR** repeatedly until the desired recording length appears.
- Recording stops when 0:00 is reached.

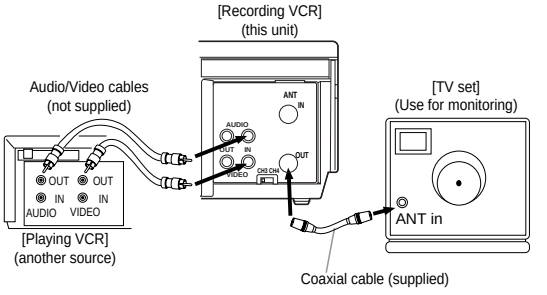
Press	Display	Recorded Length
1 press	*(normal recording)*	
2 presses	0:30	30 minutes
3 presses	1:00	60 minutes
↓	↓	↓
17 presses	8:00	480 minutes
18 presses	*(normal recording)*	

COPYING A VIDEO TAPE

You can make copies of video tapes made by friends or relatives for your enjoyment.

Warning: Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.

Connect the recording VCR(this unit), the playing VCR(another source) and your TV using the following diagram.



1) Insert a pre-recorded tape into the playing VCR.
2) Insert a tape with its safety tab into the recording VCR.
3) Press the TAPE SPEED button on the recording VCR to select the desired recording speed (SP/SLP).
4) Select the "Line-in" position on the recording VCR. See page 6, under "Using audio/video input jacks".
5) Press the REC/OTR button on the recording VCR.
6) Begin playback of the tape in the playing VCR.

- For best results during dubbing, use the VCR's front panel controls whenever possible. The remote control might affect the playing VCR's operation.
- Always use video-quality shielded cables with RCA-type connectors. Standard audio cables are not recommended.
- You can use a video disc player, satellite receiver, or other audio/video component with A/V outputs in place of the playing VCR.

TO MONITOR THE RECORDING

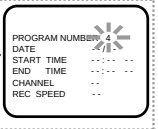
1) Turn on the TV and set the TV to channel 3 or 4. Now set the CH3/CH4 switch on the back of the VCR to match the channel selected on the TV.
2) Press the VCR/TV button on the recording VCR so that the VCR/TV indicator comes on.

You may set the VCR to start recording while you are away. You can set seven programs to record on specific days, daily or weekly within a 1 year period.

1) Insert a tape with its safety tab into the VCR.
2) Select main menu by pressing the MENU button.
3) Select "TIMER PROGRAMMING" by pressing the PLAY or STOP button. Then, press the F.FWD button.
   - If you have not yet set the clock, "CLOCK SET" appears. If so, follow the steps [3] and [4] in "CLOCK SET UP " section. Then, set the timer recording.
4) Set the timer.

Set the program number (1~7)

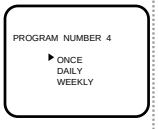
Program number which is not set up flashes.
Press the PLAY or STOP button repeatedly for the desired program number.
Then, press the F.FWD button.



Select once, daily or weekly recording

- ***For once:*** Press the PLAY or STOP button to point to "ONCE".
- ***For daily (Monday~Friday):*** Press the PLAY or STOP button to point to "DAILY".
- ***For weekly:*** Press the PLAY or STOP button to point to "WEEKLY".

Then, press the F.FWD button.



Set the date

First, press the PLAY or STOP button for the month, then, press the F.FWD button.
Next, press the PLAY or STOP button for the day.
Then, press the F.FWD button.

Set the start time

First, press the PLAY or STOP button for the hour, then, press the F.FWD button.
Next, press the PLAY or STOP button for the minute, then, press the F.FWD button.
And then, press the PLAY or STOP button for AM or PM.
Then, press the F.FWD button.

Set the end time

Follow the instructions of "Set the start time" to set the end time.

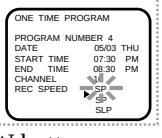
Set the channel number

Press the PLAY or STOP button repeatedly for the desired channel number.
Then, press the F.FWD button.

- If you connected the VCR to a cable box or satellite box as in "Basic connections" on page 6, select the VCR to channel 3 or 4 the same channel as the CH3 or CH4 switch on the back of the VCR. Then, select the channel you want to record at the cable box or satellite box. Leave the cable box or satellite box on for timer recording.

Set the tape speed

Press the PLAY or STOP button repeatedly for the desired tape speed.
Then, press the F.FWD button.



   - To go back one step, press the REW button.
5) To set another program, repeat step [4]. To exit, press the RESET/EXIT button.
6) Press the POWER button to set the timer. The TIMER indicator on the VCR comes on.

HINTS FOR TIMER RECORDING

- If there is a power failure or the VCR is unplugged for more than 30 seconds, the clock setting and all timer settings will be lost.
- If the tape runs out before the end time, the VCR will switch to the Stop mode immediately, eject the tape and the VCR power will be turned off. The TIMER indicator will flash.
- If a tape is not in the VCR or does not have the safety tab, the TIMER indicator flashes and timer recording cannot be performed. Please insert a recordable tape.

TO STOP AN AUTOMATIC TIMER PROGRAM ALREADY STARTED

Press the STOP/EJECT button **on the VCR**.

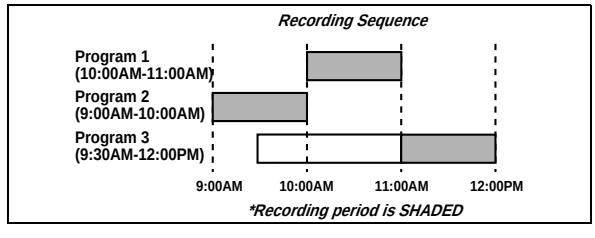
TO CHECK, CORRECT, OR CANCEL AN AUTOMATIC TIMER PROGRAM

1) Turn the power on.
2) Select main menu by pressing the MENU button.
3) Select "TIMER PROGRAMMING" by pressing the PLAY or STOP button. Then, press the F.FWD button.
4) Select the program number which you want to check by pressing the PLAY or STOP button. The details of the selected program appears on the TV screen.
   - Go to the digit you want to change by pressing the F.FWD or REW button. Then, enter correct numbers by pressing the PLAY or STOP button.
   - You may cancel the entire program by pressing the REW button during the program number flashes.
5) Press the RESET/EXIT button to exit.
6) Press the POWER button to return to timer standby mode.

AVOIDING OVERLAPPING PROGRAMS

There may be times when a program will not record. When programs overlap:

- The program with the earliest start time has priority.
- Once the earliest program finishes, the overlapping program with the lower number will begin recording in sequence.
- The illustration below demonstrates the sequence of recordings.



SPECIAL FEATURES

AUTO REWIND

When a tape has reached the end during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After rewinding finishes, the VCR will eject the tape and turn itself to off.

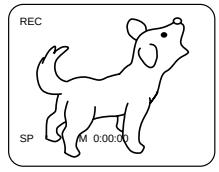
- The tape will not auto-rewind during timer recording or One Touch Recording.
- When the Counter Memory is activated, the tape will rewind to the M0:00:00 and the VCR will go into the Stop mode.

REAL TIME TAPE COUNTER

- This shows the elapsed recording or playback time in hours, minutes, and seconds. (The displayed time will not change during blank portions on the tape.)
- The "–" indication will appear when the tape is rewound further than "0:00:00" on the tape counter.

COUNTER MEMORY FUNCTION

Use this feature to memorize the beginning of recording start point.



1) Press the COUNTER RESET button on the remote control to reset the counter.
2) Press the COUNTER MEMORY button on the remote control so that "M" appears on the TV screen.
3) Record the program.
4) After recording, press the STOP button then the REW button.

- When "0:00:00" is reached, rewinding operation goes to stop. And you can view the recording program.
- The COUNTER MEMORY button does not function if the auto repeat mode is set to [ON]. In this case, set the auto repeat mode to [OFF].
- To cancel the counter memory mode, press the COUNTER MEMORY button so that "M" disappears from the TV screen.

TROUBLESHOOTING GUIDE

If you have followed the instructions contained in this manual and have difficulty in operating your VCR, locate the PROBLEM in the left column below. Check the corresponding CORRECTIVE ACTION column to remedy the problem.

PROBLEM	CORRECTIVE ACTION
No power.	• Make sure the power plug is connected to an AC outlet. • Make sure the power is turned on.
Timer recording is not possible.	• Make sure the timer recording is set correctly. • Make sure the power is off. • Make sure the VCR clock is set correctly.
Cannot go into Record mode.	• Make sure the tape has a safety tab. If needed, cover the hole with plastic tape.
Playback picture is partially noisy.	• Adjust tracking control for a better picture by pressing the CHANNEL Up or Down button on the VCR.
Cannot view a tape but the audio is OK.	• Head cleaning may be necessary. Refer to "AUTO HEAD CLEANING" . • Make sure the VCR is not in the Menu mode.
No picture or poor picture on playback.	• Set your TV to the VCR mode and/or press the VCR/TV button so that the VCR/TV indicator on the VCR comes on. • Fine tune your TV.
On-the-air TV programs cannot be seen.	• Re-check the ANT. IN and ANT. OUT connections. See page 6. • Set your TV to the TV mode and/or press the VCR/TV button so that the VCR/TV indicator on the VCR disappears.
No VCR operation from the infrared Remote Control.	• Make sure the power plug is connected to an AC outlet. • Check batteries in remote control.
Video or color fades in and out when making a copy of a video tape.	• You cannot copy a copyrighted video tape. You are experiencing copy guard protection.

SPECIFICATIONS

Television system :	NTSC, TV standard
Video heads :	Rotary two-head
Tape cassette :	VHS video cassette
Tape speed	
Recording :	SP, SLP
Playback :	SP, LP, SLP
Tuner channel	
VHF :	#2~#13
UHF :	#14~#69
Cable channel :	5A, A-5 ~ A-1, A ~ W+84
RF converter :	Built-in VHF converter
Converter output :	VHF Channel 3 or 4.
Timer indication :	AM/PM 12-hour system
Operating temperature :	5^{o}C~40^{o}C (41^{o}F~104^{o}F)
Terminals	
Antenna input :	F type connector x 1
Antenna output :	F type connector x 1
Video input/output :	RCA connector x 2
Audio input/output :	RCA connector x 2

Video output level :	1Vp-p
Video output impedance :	75Ω
Audio output level :	-6dBv (1KHz)
Video input level :	0.5~2.0Vp-p
Audio input level :	-10dBv
Power requirement :	120V, 60Hz
Power consumption :	12 Watts
Dimensions :	W 14-1/4" (360mm)
	H 3-5/8" (92mm)
	D 8-1/2" (215.5mm)
Weight :	5.1 lbs. (2.3 Kg.) (approx.)

- Designs and specifications are subject to change without notice and without legal obligation.
- If there is a discrepancy between languages, the default language will be English.

MAINTENANCE

SERVICING

Should your VCR become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug, and please call our help line at 1-800-287-4871, to locate an Authorized Service Center.

CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the VCR with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the VCR. Such chemicals may cause damage and discoloration to the exposed surfaces.

AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clear picture.
- Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after long periods of use, or the usage of rental or worn tapes can cause this problem.

  If a streaky or snowy picture appears during playback, the video heads in your VCR may need to be cleaned.

1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
2. If a Video Head Cleaner does not solve the problem, please call our help line at 1-800-287-4871, to locate an Authorized Service Center.

NOTES:

- Remember to read the instructions included with the video head cleaner before use.
- Clean video heads only when problems occur.

SYLVANIA HOME ENTERTAINMENT WARRANTY

We appreciate your purchase of a SYLVANIA Home Entertainment product. We take pride in the quality of our products and have manufactured your new Home Entertainment unit to exacting quality standards. We feel confident that in normal use, it will provide you with satisfactory performance. However, should you experience difficulty, you are protected under the provisions of this warranty.
SYLVANIA Home Entertainment products are warranted against manufacturing defects in materials and workmanship in normal use for the following periods from the date of purchase by the original user, and is conditional upon the unit being installed and used as directed in the instruction manual.

Product	Parts and Labour
V.C.R.	1 Year
Video Head	6 Months
Remote Control	90 Days

SYLVANIA's obligation under this warranty shall be limited to the repair, including all necessary parts and the cost of the labour connected therewith, or at our option the exchange of any Home Entertainment product which shows evidence of a manufacturing defect within the warranty period.
Replacement parts, furnished in connection with this warranty shall be warranted for a period equal to the unexpired portion of the original equipment warranty.

CUSTOMER OBLIGATIONS

This warranty applies to the product from the original date of purchase at retail. Therefore, the owner must provide a copy of the original, dated bill of sale. No warranty service will be performed without a bill of sale. Transportation to and from the service depot is the responsibility of the owner.

WARRANTY EXCLUSIONS

This warranty is extended to SYLVANIA Home Entertainment products purchased and used in Canada. This warranty shall not apply to appearance or accessory items including but not limited to: cabinet, cabinet parts, batteries, connecting cables, tapes. This warranty shall, in addition, not apply to cleaning video / audio heads, pinch rollers, tape transport system damages due to handling, transportation, unpacking, set-up, installation, customer adjustments that are covered in the instruction book, repair or replacement of parts supplied by other than the SYLVANIA authorized service depot, any malfunction or failure caused by or resulting from abnormal environmental conditions, improper unauthorized service, improper maintenance, modifications or repair by the consumer, abuse, misuse, neglect, accident, fire, flood, or other Acts of God, and incorrect line voltage.
This Home Entertainment product is only warranted to the original retail purchaser. This warranty becomes void in the event of commercial or rental use. This warranty becomes void in the event serial numbers are altered, defaced or removed.
SYLVANIA reserves the right to make changes in design or to make additions to or improvements upon this product without incurring any obligation to install the same on products previously manufactured.
The foregoing is in lieu of all other warranties expressed or implied and SYLVANIA neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of this product. In no event shall SYLVANIA or its SYLVANIA dealers be liable for special or consequential damage arising from the use of this product, or for any delay in the performance of this warranty due to cause beyond our control.
The purchaser may have other rights under existing provincial or federal laws, and where any terms of this warranty are prohibited by such laws, they are deemed null and void, but the remainder of the warranty shall remain in effect.

HOW TO OBTAIN SERVICE

Should this product require service, you may obtain specific information on how to obtain service by contacting the SYLVANIA Dealer from whom this product was purchased, or by contacting us directly:

SONIGEM SERVICE
300 Alden Road
Markham, Ontario
L3R 4C1
PHONE: (905) 940-5089 FAX: (905) 940-2303
1-800-287-4871

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